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Sep 12, 1989

DERWENT-ACC-NO: 1989-306015  
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TITLE: Enzyme immunochemical determination of angiotensin II - by adding sample contg. angiotensin II and soln. of angiotensin II labelled with beta-D-galactosidase in antibody and fluorometric determ.

PRIORITY-DATA: 1988JP-0055596 (March 9, 1988)

## PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
JP 01227961 A	September 12, 1989		007	

INT-CL (IPC): G01N 33/53

ABSTRACTED-PUB-NO: JP 01227961A  
BASIC-ABSTRACT:

A method for enzyme immunochemical determination of angiotensin II comprises adding a sample contg. angiotensin II and a soln. of angiotensin II labelled with beta-D-galactosidase in anti-angiotensin II antibody, and measuring fluorometrically the enzymatic activity of beta-D-galactosidase -angiotensin II bound competitively with the antibody to determine the content of the angiotensin II in the sample.

USE/ADVANTAGE - The method is useful for determining angiotensin II. The immunoassay has high sensitivity and can determine angiotensin II of 0.45-1000 pg. (absolute amt.). As the concn. of angiotensin in blood plasma is usually 10-100 pg/ml., the determination can be carried out using about 0.5-1 ml. of blood plasma. The method can be simply, safely and conveniently carried out without requiring special appts.. The enzyme immunoassay by one antibody method using microplate does not need complex B/F sepn. and is effective for the analysis of a large amt. of samples.

In an example, anti-angiotensin II antibody prepd. from rabbit blood serum immunised by angiotensin II-bovine blood serum albumin complex is used as the antibody, and 4-methylumbelliferyl- beta-D-galactoside is used as the substrate of the labelling enzyme. beta-D-galactosidase- angiotensin II is made by treating N-(m-maleimidobenzoyloxy) angiotensin II with beta-D-galactosidase in a molar ratio of 21:1.

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EQUIVALENT-ABSTRACTS:

CHOSEN-DRAWING: Dwg.0/0